

LUGANOVA, I.S., SEYTS, I.F., TEODOROVICH, V.I.

Metabolism in human thrombocytes [with summary in English].
Biokhimiia 23 no.3:405-411 My-Je '58 (MIRA 11:8)

1. Institut perelivaniya krovi Ministerstva zdravookhraneniya
RSFSR, Leningrad.
(BLOOD PLATEETS, metabolism
(Rus))

LUGANOVA, I.S., SEYTS, I.F.

Nucleic acids, phospholipids and phosphoproteins in human leukocytes
[with summary in English]. Biul.eksp.biol. i med. 46 no.8:58-61
Ag '58 (MIRA 11:10)

1. Iz biokhimicheskoy laboratorii (zav. - prof. I.F. Seyts)
Leningradskogo instituta perelivaniya krovi (dir. dots. A.D. Belyakov)
Ministerstva zdravookhraneniya RSFSR. Predstavlena deystvitel'nym
chlenom AMN SSSR A.I. Serebrovym.

(LEUKOCYTES, metab.

nucleic acids, phospholipids & phosphoproteins in healthy
& leukemic blood (Rus))

(LEUKEMIA, blood in

leukocytal, nucleic acids, phospholipids & phospho-
proteins (Rus))

(NUCLEIC ACIDS, in blood

leukocytal, in healthy & leukemic subjects (Rus))

(PHOSPHOLIPIDS, in blood

same (Rus))

(BLOOD PROTEINS,

phosphoproteins in leukocytes in healthy & leukemic
subjects (Rus))

LUGANOVA, I.S.; SEYTS, I.F.

Quantitative characteristics of respiration and glycolysis in human leukocytes. Biul. eksp. biol. i med. 46 no. 12:57-60 D '58. (MIRA 12:1)

1. Iz laboratorii biokhimii (zav. - prof. I.F. Seyts) Leningradskogo instituta perelivaniya krovi (dir. - dots. A.D. Belyakov) Ministerstva zdravookhraneniya RSFSR. Predstavlena deystvitel'nym chlenom AMN SSSR

A. I. Serebrovym.

(LEUKOCYTES, physiol.
resp. & glycolysis rates, formulae (Rus))

Seyts, I. F.

20-2-40/60

AUTHOR: Seyts, I. F.

TITLE: Aerobic Glycolysis and Malignant Growth (Aerobnyy glikoliz i glo-kachestvennyy rost)

PERIODICAL: Doklady AN SSSR, 1958, Vol. 118, Nr 2, pp. 344 - 347 (USSR)

ABSTRACT: According to most recent opinions the formation of neoplasms is connected with an irreversible disturbance of respiration and an increase in the glycolytic activity of cells (reference 1). But in malignant growths not only the respiration but also the anaerobic glycolysis is not perfect (references 2 - 4). Neither the respiration alone nor the anaerobic glycolysis, however, are according to the papers cited capable of representing a source of the energy and the building material for the synthesis of proteins and nucleic acids. This can only be guaranteed by the aerobic glycolysis. A comparison of these results with those on the perfection of the respiration and the anaerobic glycolysis of the "ascytic" cancerous cells was necessary (reference 4). In this connection the author studied the energetic and plastic transformation of radioactive glucose and lactate in the cancerous cells under various conditions of aeration. Ascitic cancerous cells of the mice-carcinom of Ehrlich (Erlich) were uniformly incubated with glucose labelled with

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20-2-48/60

Aerobic Glycolysis and Malignant Growth

the oxidizing mechanism of the utilization of lactate. The economy of the utilization of lactate surpasses the effectivity of the cleavage of glucose by several dozen times. Thus the process of respiration is much more economical than the glycolytic cleavage of sugar. It is just there where the advantage of the aerobic exchange over the anaerobic one in cancerous cells lies. The totality of the results obtained permits the conclusion that the respiration and the anaerobic glycolysis, each of them separately, supply the cancerous cells with the necessary energy and building material for the intracellular synthesis. Most favorable is their coexistence. The biological sense of the aerobic glycolysis in the tumors may be considered as lying in the fact that it effects the above-mentioned economically favorable process: lactic acid is supplied by the cell in spite of the respiration and simultaneously for the respiration. The respiration and the glycolysis are both necessary for the cancerous cell. The cell can, however, for some time also exist at the expense of only one of these processes. There are 2 figures, and 7 references, 5 of which are Slavic.

Card ASSOCIATION: Institute for Blood-Transfusion , Leningrad
(Leningradskiy institut perelivaniya krovi)

PRESENTED: August 3, 1957, by K. M. Bykov, Academician

Seyts, I. F.

AUTHORS: Lukanova, J. S., Seyts, I. F., Teodorovich,
V. I. 20-3-34/59

TITLE: On the Metabolic Activity of Blood Platelets
(O metabolicheskoy aktivnosti krovyanikh plastinok).

PERIODICAL: Doklady AN SSSR, 1958, Vol. 118, Nr 3, pp. 537-539 (USSR)

ABSTRACT: Although blood platelets represent an important element in the system of coagulation their chemical structure and metabolism have been investigated only to a small extent. For this reason the investigation of the structural-chemical fundamental components of these cells is of special importance. Blood platelets of the blood of healthy persons (blood donors) were used as experimental material. They were investigated as to respiration, glycolysis, circulation of phosphorus in various phosphor-organic compounds (P^{32}), the renewal of protein and of nucleinic acids at the carbon skeleton (glucose marked uniformly by C¹⁴). Moreover, O₂-absorption (in the Varburg apparatus), and formation of lactic acid (colorimetrically with p-oxydiphenyl) were measured. Adenosine-3-phosphoric acid (ATPh) was determined by means of the absorption method with coal (ref. 2). The metabolic characteristics of blood

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20-3-34/59

On the Metabolic Activity of Blood Platelets

platelets are given on table 1. The velocity of aerobic glycolysis of blood platelets amounted to approximately 65 % of the glycolysis possible under anaerobic conditions. Furthermore, it can be seen from table 1 that the respiration of blood platelets under the presence of glucose is by approximately 20% weaker than without glucose. This proves that the so-called reverse Paster (Pasteur)-reaction takes place in the blood platelets. The analogy of energetic metabolism of blood platelets with leucocytes and cancer cells is not only restricted to anaerobic glycolysis and the reverse Paster reaction. Moreover, blood platelets like leucocytes and ascytic cancer cells are able to guarantee a full-value resynthesis of ATP and of other complicated phosphorus organic compounds on anaerobic conditions. Between these three cells so different from the biological, genetical, morphological, and chemical point of view there exist some common features which are in connection with the mentioned peculiarities of metabolism and which are due to them. However, any specific connection between parameters of energy metabolism with blood platelets and malignancy are excluded. No deoxyribonucleic acid could be found in blood platelets. However, they contain ribonucleic acid in noticeable

Card 2/4

On the Metabolic Activity of Blood Platelets

20-3-34/59

quantities. Although this amount is considerably smaller in blood platelets (approximately 1/5) than in leucocytes the velocity of the reformation of phosphorus is by some dozens of times higher in the case of the blood platelets than with leucocytes. Phosphorus is quickly renewed also in phosphoproteins which are contained only little in blood platelets. On the other hand the p^{32} -inclusion in to the abundantly present phospholipoids was unimportant. Up to now there is no agreement as to whether blood platelets are full-value cells or only cell splinters. It can be seen from the above results that blood platelets dispose of the whole spectrum of systems of enzymes which catalize the energetic and the plastic metabolism. Only living biological systems autonomous from the functional and structural-chemical point of view can show these properties. Inspite of the lacking of a nucleus (which is known also from other cases) blood platelets must be characterized from the biochemical point of view as biologic formations with the main features of a cell. There are 2 tables, and 6 references, 4 of which are Slavic.

Card 3/4

ASSOCIATION: Institute for Blood Transfusions, Leningrad
(Leningradskiy institut perelivaniya krovi).

PRESENTED: July 8, 1957, by L. A. Orbeli, Academician

SEYTS, I.F.

21(1); 17(0) PLATE I BOOK EXPLORATION 807/2003
International Conference on the Peaceful Uses of Atomic Energy. 2d, Geneva, 1958

Doklady svezekh uchenykh radiobiologiya i radiatsionnoy meditsinye (Reports of Soviet Scientists Radiobiology and Radiation Medicine)

(Reports of Soviet Scientists Radiobiology and Radiation Medicine) (Series: Sov. na Ministriv USSR, 1959, No. 6, 6,000 copies Printed. (Series: Vsesoyuz. Nauchno-tekhn. konferentsiya po atomnomu ispol'zovaniyu atomnoy energii. Trudy, tom 5))

General Ed.: A.V. Dobrolyubov, Corresponding Member, USSR Academy of Medical Sciences) Ed.: Z.S. Shirokova, Tech. Ed.: Ye.I. Masal'. Translated.

PURPOSE: This book is intended for physicians, scientists, and engineers as well as for professors and students at universities where radiobiology and radiation medicine are taught.

CONTENTS: This is Volume 5 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy, held on September 1-12, 1958, in Geneva. Volume 5 contains 36 reports edited by Candidates of Medical Sciences S.V. Levinitsky and V.V. Solov'ev. The reports cover problems of the biological effects of ionizing radiation, future consequences of radiation in small doses, genetic effects of radiation, treatment of radiation sickness, uses of radioactive isotopes in medical and biological research, uses of atomic energy for diagnostic and therapeutic purposes, oral abortion of uterine fibroid products, their intake by plants, and their storage in plants and foodstuffs. References accompany each report.

Reports of Soviet Scientists (Cont.)

807/2003
Sobolev, N.P. - The Accelerating Function of the Cystome A System in Radiation Sickness (Report No. 2259)

Martynov, N.M., N.D. Ovtcharova, O.A. Mikhaleva, N.A. Ponomarenko, L.A. Selivanova, and T.L. Shatalova. Effect of Ionizing Radiation and of Radioisotopic Substances on the Microbe Cell (Report No. 2250)

Timoshenko, N.P., and V.V. Shishiburov. Local Tests to Show the State of Gammaradiation and Autoseminization or an Irradiated Organism (Report No. 2272)

Bogdanov, A.A., F.D. Vinograd-Pankell, M.O. Rabinovich, N.P. Dobrolyubov, S.B. Kostylev, N.K. Molchanov, G.M. Abdullaev, and N.N. Lapinska. Experience in Treating Radiation Sickness with Leukocyte and Thrombocyte Substances (Report No. 2253)

Igolnik, A.G., and I.B. Kvitko-Markus. Experiments to Determine Maximum Permissible Thermal Radiation Doses (Report No. 2278)

Gorodetskaya, N.M., and S.I. Imenets. Isotopic Method in Studying the Nonionic Effect on Metabolism in Glucose Tissues (Report No. 2272)

Card 4/7

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LUGANOVA, I.S., nauchnyy sotrudnik; SEYTS, I.F., prof.; TEODOROVICH, V.I.,
starshiy nauchnyy sotrudnik . . .

Characteristic features of the respiration of normal human leucocytes.
(MIRA 13:1)
Akt.vop.perel.krovi no.7:105-109 '59.

1. Laboratoriya biokhimii (zav. laboratoriyy - prof. I.F. Seyts) i
laboratoriya konservirovaniya krovi (zav. laboratoriyy - nauchnyy
sotrudnik M.A. Rozhdestvenskaya) Leningradskogo instituta perelivaniya
krovi.
(LEYOCYTES)

LUGANOVA, I.S., nauchnyy sotrudnik; SEYTS, I.F., prof.

Oxidation of C¹⁴-glucose and C¹⁴-lactate in lymphocytes. Akt.vop.perel.
(MIRA 13:1)
krovi no.7:109-114 '59.

1. Laboratoriya biokhimii (zav. laboratoriyyey - prof. I.F. Seyts) i
hematologicheskaya klinika (zav. - prof. S.I. Sherman) Leningradskogo
instituta perelivaniya krovi.
(LYMPHOCYTES) (C¹⁴-GLUCOSE) (C¹⁴-LACTATE) (OXIDATION, PHYSIOLOGICAL)

LUGANOVA, I.S., mladshiy nauchnyy sotrudnik; SEYTS, I.F., prof.

Nature of the substrate of leucocyte respiration in patients with
chronic myeloid leukemia. Akt.vop.perel.krovi no.7:115-118 '59.
(MIRA 13:1)

1. Laboratoriya biokhimii (zav. laboratoriyy - prof. I.F. Seyts)
i hematologicheskaya klinika (zav. - prof. S.I. Sherman) Leningradskogo
instituta perelivaniya krovi.
(LEUCOCYTES) (LEUKEMIA) (OXIDATION, PHYSIOLOGICAL)

LUGANOVA, I.S., nauchnyy sotrudnik; SEYTS, I.F., prof.

Substrate of leucocyte respiration in patients with acute leukemia.
Akt.vop.perel.krovi no.7:118-121 '59. (MIRA 13:1)

1. Biokhimicheskaya laboratoriya (zav. laboratoriyy - prof. I.F. Seyts) i hematologicheskaya klinika (zav. - prof. S.I. Sherman) Lenigradskogo instituta perelivaniya krovi.
(LEUCOCYTES) (LEUKEMIA) (OXIDATION, PHYSIOLOGICAL)

LUGANOVA, I.S., nauchnyy sotrudnik; SEYTS, I.F., prof.

Two types of leucocyte metabolism in acute leukemia. Akt.vop.perel.
krovi no.7:122-128 '59. (MIRA 13:1)

I. Biokhimicheskaya laboratoriya (zav. laboratoriyy - prof. I.F.
Seyts) i gematologicheskaya klinika (zav. klinikoy - prof. S.I. Sherman)
Leningradskogo instituta perelivaniya krovi.
(LEUCOCYTES) (LEUKEMIA) (OXIDATION, PHYSIOLOGICAL)

MIKHNOVICH, Ye.P., mladshiy nauchnyy sotrudnik; SEYTS, I.F., prof.

Energy exchange of reticulocytes. Akt.vop.perel.krovi no.7:128-135
'59. (MIRA 13:1)

1. Laboratoriya biokhimii (zav. laboratoriyy - prof. I.F. Seyts)
i laboratoriya konservirovaniya krovi (zav. laboratoriyy - starshiy
nauchnyy sotrudnik M.A. Rozhdestvenskaya) Leningradskogo instituta
perelivaniya krovi. (CELL METABOLISM)

FILIPPOVA, V.N., starshiy nauchnyy sotrudnik; SEYTS, I.F., prof.

Influence of X rays on the coenzyme of acetylation. Akt.vop.perev.
krovi no.7:135-137 '59. (MIRA 13:1)

1. Laboratoriya biokhimii (zav. labortaoriyey - prof. I.F. Seyts)
Leningradskogo instituta perelivaniya krovi.
(ACETYLATION) (COENZYMES) (X RAYS--PHYSIOLOGICAL EFFECT)

LUGANOVA, I.S.; SEYTS, I.F.. prof.

Metabolic characteristics of human leukocytes under normal conditions
and in leukemia. Probl.gemat.i perel.krovi 4 no.11:33-38 N '59.
(MIRA 13:3)

1. Iz laboratori biokhimii (zaveduyushchiy - prof. I.F. Seyts)
Leningradskogo ordena trudovogo Krasnogo Znameni instituta pereli-
vaniya krovi (direktor - dotsent A.D. Belyakov).
(LEUKEMIA blood)
(LEUKOCYTES metabolism)

SEYTS, I.F.

Role of respiration and glycolysis in anabolism in cancer
cells. Vop.med.khim. 5 no.2:114-123 Mr-Ap '59.

(MIRA 12:5)

1. Biochemical Laboratory, Institute of Blood Transfusion,
Leningrad.

(NEOPLASMS, metabolism,
radiocarbon uptake in aseites cancer cells (Rus))
(CARBON, radioactive,
cancer cell uptake (Rus))

LUGANOVA, I.S.; SEYTS, I.F.

Respiration, glycolysis, and coupled phosphorylation in human lymphocytes. Vop.med.khim. 5 no.4:285-292 Jl-Ag '59. (MIRA 12:12)

1. Laboratoriya biokhimii Leningradskogo instituta perelivaniya krovi.
(LYMPHOCYTES metab.)
(TISSUE METABOLISM)
(CARBOHYDRATES metab.)

LUGANOVA, I.S.; SEYTS, I.F.

Extracellular factors controlling carbohydrate metabolism in leukocytes. Vop.med. khim. 6 no.3:309-315 My-Je '60.

(MIRA 14:3)

I. Laboratoriya biokhimii Leningradskogo instituta perelivaniya krovi.

(CARBOHYDRATE METABOLISM)

(LEUKOCYTES)

FILIPPOVA, V.N.; SEYTS, I.F.

Intracellular distribution of components of the acetylation system
in liver cells of the pigeon. Biokhimiia 25 no.4:716-720 Jl-Ag '60.
(MIRA 13:11)

1. Biochemical Laboratory, Institute of Blood Transfusion, Leningrad.
(ACETYLATION) (SULFANILAMIDE)
(CELL METABOLISM)

SIYAMITSKAYA, M.F.; SEYTS, I.F.

Metabolism of phosphorus nucleic acids, phosphoproteins and
phospholipids in the cells of Ehrlich ascites tumor. Vop.onk.
7 no.12:3-8 '61. (MIRA 15:1)

1. Iz laboratorii biokhimii Leningradskogo nauchno-issledovatel'-
skogo instituta perelivaniya krovi (dir. - dots. A.D. Belyakov,
nauchn. rukovod. - chlen-korrespondent AMN SSSR prof. A.N. Filatov).
Adres avtorov: Leningrad, 2-ya Sovetskaya ul., 16, Institut
perelivaniya krovi.
(TUMORS) (NUCLEIC ACIDS) (PHOSPHATIDES) (PHOSPHOPROTEINS)

VLADIMIROVA, A.D.; SEYTS, I.F.

Inhibition of the fermentation of macerated yeast juice by
rat liver mitochondria. Biokhimiia 26 no.6:1070-1076 N-D '61.
(MIRA 15:6)

1. Institute of Blood Transfusion, Leningrad.
(FERMENTATION) (LIVER) (MITOCHONDRIA)

SEYTS, I.F.; LUGANOVA, I.S. (Leningrad)

Some results of a biochemical study of leukocytes. Usp.sovr.biol.
51 no.3:317-336 My-Je '61. (MIRA 14:6)
(LEUKOCYTES)

IUGANOVA, I.S.; SEYTS, I.F.

Glycogen content and its metabolism in human leucocytes under
normal conditions and in leukemia. Vop. med. khim. 8 no.4:354-
361 Jl-Ag '62. (MIRA 17:11)

1. Laboratoriya biokhimii Leningradskogo instituta perelivaniya
krovi.

SEYTS, I.F.

Biochemical characteristics of some blood cells in the light
of the concept of so-called cancer metabolism. Vop.onk. 8
no.6:106-111 '62. (MIRA 15:11)

1. Iz laboratorii biokhimii (zav. - prof. I.F. Seyts) Leningrad-
skogo instituta perelivaniya krovi (dir. - dots. A.D. Belyakov).
(CANCER) (BLOOD CELLS) (CELL METABOLISM)

LUGANOVA, I.S.; SEYTS, I.F.

Glycogen in human leucocytes and its transformations. Dokl.
AN SSSR 142 no.1:215-218 Ja '62. (MIRA 14:12)

1. Leningradskiy nauchno-issledovatel'skiy institut perelivaniya
krovi. Predstavлено академиком V.N. Chernigovskim.
(GLYCOGEN) (LEUCOCYTES)

LUGANOVA, I.S.; SEYTS, I.F.

Metabolic routes of glucose transformation in the leucocytes
of healthy persons and leukemia patients. Probl. gemat. i
perel. krovi 8 no.489-15 Ap'63 (MIRA 17:2)

1. Iz biokhimicheskoy laboratorii Leningradskogo instituta
perelivaniya krovi (direktor - dotsent A.D. Belyakov).

SIYANITSKAYA, M.F.; SEYTS, I.F.

Some qualitative characteristics of energy metabolism
in the cells of Ehrlich ascites carcinoma. Vop. med.
khim. 9 no.1:19-27 Ja-F '63. (MIRA 17:6)

l. Laboratoriya biokhimii Leningradskogo instituta perelivaniya
krovi.

LUGANOVA, I.S.; SEYTS, I.F.

Glycogen synthesis in human thrombocytes with uridine diphosphate glucose participation. Vop. med. khim. 9 no.4:398-403
Jl-Ag'63 (MIRA 17:4)

1. Laboratoriya biokhimii Leningradskogo instituta perelivaniya krovi.

KOBZENKO, M.F.; SEYDIS, I.F.

Uridine diphosphate glucose system and glycogen transformation
in ascitic tumor cells. Vop. onk. 10 no.2:73-81 '64.

(MIRA 17:7)

I. iz biokhimiicheskoy laboratorii LenIngradskogo nauchno-issledovatel'skogo instituta perelivaniya krovi.

LUGANOVA, I.S.; SEYTS, I.F.

Enzymatic activity in the synthesis of glycogen by leukocytes in
human leukemia. Vop. onk. 10 no.7:38-42 '64. (MIRA 18:4)

1. Iz laboratorii biokhimii (zav. - prof. I.F.Seyts) Instituta
perelivaniya krovi Ministerstva zdravookhraneniya RSFSR (dir. -
dotsent I.D.Belyakov). Adres avtorov: Leningrad, 2-ya Sovetskaya
ulitsa, d.16, Institut perelivaniya krovi.

ACCESSION NR: AP4012731

S/0218/64/029/001/0022/0029

AUTHOR: Luganova, I. S.; Rozanova, L. M.; Seyts, I. F.

TITLE: Respiration, glycolysis, and glycogen synthesis in human bone marrow

SOURCE: Biokhimiya, v. 29, no. 1, 1964, 22-29

TOPIC TAGS: bone marrow cell, respiration, glycolysis, glycogen synthesis, enzyme activity, bone marrow acetone powder, Pasteur reaction reversed, hexokinase, phosphoglucomutase, uridine diphosphate glucose

ABSTRACT: Bone marrow cells (myelocaryocytes) were isolated from the bone marrow of healthy donors by fractional centrifuging to investigate respiration, glycolysis, glycogen synthesis, and the activity of certain enzyme systems. Respiration was measured by manometer and glycogen was determined calorimetrically with n-oxyphenol. Glycogen was separated according to Good's method and then determined by the glucose with a thymol-sulfur reagent. Glycogen metabolism was determined using radioactive C¹⁴-glucose. Protein level was found by biuret reaction. Acetone powder extracts of bone marrow cells were

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ACCESSION NR: APl4012731

used to find enzyme activity. Findings show that respiration and glycolysis in bone marrow cells are lower than in leucocytes. Respiration of bone marrow cells is higher in a medium without glucose. Glucose reduces O_2 consumption of bone marrow cells by 10-15%, which is a reversed Pasteur reaction. In this respect bone marrow cells are related to leucocytes and thrombocytes which also display this type of reaction. The glycogen content of bone marrow cells constitutes approximately 1.7% of their dry weight. Glycogen metabolism of bone marrow cells is 2-3 times higher than that of leucocytes. Active enzymes found in the acetone powder extracts are: hexokinase, phosphoglucomutase, uridine diphosphate glucose-glycogen synthetase, and also glucose-6-phosphate-dehydrogenase. Possible synthesis of C^{14} -glycogen from C^{14} -glucose is demonstrated in acetone powder extracts of bone marrow cells. This synthesis is dependent on the presence of uridine triphosphate and the activity of uridine phosphate glucose pyrophosphorylase. Also demonstrated is the direct transfer of C^{14} -glucose particles from uridine diphosphate glucose- C^{14} to glycogen in the bone marrow cell extracts. Orig. art. has: 4 tables.

Card 2/3

ACCESSION NR: AP4012731

ASSOCIATION: Laboratoriya biokhimii i hematologicheskaya klinika
instituta perelivaniya krovi, Leningrad (Biochemistry Laboratory and
Hematological Clinic, Blood Transfusion Institute)

SUBMITTED: 11Feb63 DATE ACQ: 03Mar64 ENCL: 00

SUB CODE: AM NO REF SOV: 011 OTHER: 007

Card 3/3

VLADIMIROVA, A.D.; SEYTS, I.F.

Content of uridine diphosphate glucose in the leucocytes in
healthy and leukemic persons. Biul.eksp.biol.i med. 58
no.10:56-59 O '64. (MIRA 18:12)

I. Biohimicheskaya laboratoriya (zav. - prof. I.F.Seyts)
Leningradskogo nauchno-issledovatel'skogo instituta
perelivaniya krovi (dir. - dotsent A.D.Belyakov). Submitted
July 22, 1963.

ACCESSION NR: AP4016515

S/0020/64/154/005/1210/1213

AUTHORS: Filippova, V.N.; Seyts, I.F.

TITLE: The effect of X-ray irradiation on the coenzyme A content
in the bone marrow of rats

SOURCE: AN SSSR. Doklady*, v. 154, no. 5, 1964, 1210-1213

TOPIC TAGS: coenzyme A, bone marrow, radiation injury, sulfhydryl group, phosphoro-glycero-aldehyde, coenzyme molecule, radiation-resistant tissue, versene, acetyl sulfanilamide, leucocyte, peripheral blood, para-aminobenzoic acid

ABSTRACT: The desire for a better understanding of the biochemical processes involved in the pathogenesis of radiation sickness prompted a study of the changing quantitative content of coenzyme A under the effect of radiation on bone marrow. White rats were used as test animals. The tests revealed considerable differences in the content of coenzyme A in the bone marrow of the irradiated and non-irradiated animals. The animals died four hours after their ex-

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ACCESSION NR: AP4016515

posure to a lethal dose of ionizing radiation which damaged the acetylation system beyond repair. According to these tests, the coenzyme A concentration in the bone marrow cells is sharply reduced in the first hours after the irradiation until stabilized at a certain minimum which remains unchanged until the death of the test animal. Investigations carried out by other researchers (Heuningen, du Bois, Romantsev, etc.) in the field of relatively radiation-resistant tissues (crystalline lens, liver and brain) indicate a disrupted function of the enzymatic system in the later hours following the irradiation, while our investigations showed biochemical changes in the same tissues only 2-4 hours after the exposure to radiation. There is justification for the conclusion that the quantity of coenzyme A in the bone marrow is reduced by 50% in the first 4 hours after the radiation effect. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: Leningradskiy nauchno-issledovatel'skiy institut perelivaniya krovi (Leningrad Scientific-Research Institute of Blood Transfusion)

Card 2/31

SEYTS, I.F.

Some aspects of the chemism and metabolism of leukoses
and cancer cells. Vest. AMN SSSR no.4:10-22 '65.
(MIRA 18:10)
1. Leningradskiy institut perelivaniya krovi.

LUGANOVA, I.S.; ROZANOVA, L.M.; SEYTS, I.F.

Respiration, glycolysis and glycogen synthesis in human
bone marrow. Biokhimiia 29 no. 1:22-29 Ja-F '64.

(MIRA 18:12)

1. Laboratoriya biokhimii i Gematologicheskaya klinika
Instituta perelivaniya krovi, Leningrad. Submitted Feb. 11,
1963.

SEYTC, V.

Grazing

Range fattening operations are increasing. Mias.ind. SSSR 23 No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1957, Uncl.
2

SEYUTIN, A.S.; TIKHOMIROV, N.A.

High intensity magnetic separator MS-2 for dressing low magnetic
ores and materials. TSvet. met. 31 no.3:25-29 Mr '58. (MIRA 11:4)

1. Zavod im. Kotlyakova.
(Magnetic separation of ores)

Abs Jour : RZhBiol., No 6, 1959, No 24834

Author : Sezanov, V. I.
Inst : Kubyshev Agricultural Institute.
Title : Corn, Its Biology and Selection of Varieties
for Kuybyshevskaya Oblast.
Orig Pub : Izv. Kuybyshevsk. s.-kh. in-ta, 1958, 13, 3-22

Abstract : The essay on corn biology is applicable to various regions of cultivation of USSR and United States. Methods for the obtainment of hybrid corn are described. Operational results of the Chair of the Selection Institute for 1955-1956 on the selection of Kuban varieties for Kuybyshevskaya Oblast were reported. The hybrids, Bezenchuk (22 crossed with 44) crossed

Card : 1/3

USSR / Human and Animal Physiology. Blood.

T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41233.

Author : Ruumina, V. I.; Sezebrennikova, I. A.; Kleytman,
Ye. I.

Inst : All-Union Society of Physiologists, Biochemists
and Pharmacologists.

Title : Blood Glycolysis in Experimental Hemolytic Anemias
Produced by Dyes.

Orig Pub: Tr. Vses. o-va. fiziol., biokhim. i farmakologov.,
1956, 3, 95-99.

Abstract: Hemolytic anemia was produced in experiments in 25
rabbits by subcutaneous injection of 1-2% aqueous
solution of picric acid (130 mg/kg), methylene

Card 1/3

ZOTIN, M.I., st. nauchn. sotr.; SEREBRYAKOV, A.V., mlad. nauchn. sotr.; ALPATOVA, T.A., mlad. nauchn. sotr.; SEZEMAN, N.A., mlad. nauchn. sotr.; KRIVONOGOV, M.S.; ZHIL'OI, M.; PREBYSHEVSKAYA, M.M.; SEDELKOV, V.A., inzh.; MINENKO, V.M., red.

[Hydrology of the estuary region of the Northern Dvina]
Gidrologiya ust'evoi oblasti Severnoi Dviny. Moskva,
Gidrometeoizdat, 1965. 375 p. (MIRA 18:8)

1. Moscow. Gosudarstvennyy okeanograficheskiy institut.
2. Gosudarstvennyy okeanograficheskiy institut, Moskva.
(for Zotin, Serebryakov, Alpatova, Sezeman).
3. Nachal'nik gidrokhimicheskoy laboratorii Severnogo upravleniya gidrometeorologicheskoy sluzhby (for Prebyshevskaya).
4. Na-
- chal'nik Severo-Dvinskoy ust'yevoy stantsii (for Krivonogov).
5. Severo-Dvinskaya ust'yevaya stantsiya (for Sedelkov).

BEZRUKIKH, D.G., inzhener; SEZEMIN, P.I., inzhener.

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From. 3 no.5:3-5 My '54. (MLRA 7:6)

1. Trest Litmebel'. (Furniture--Transportation) (Boxes)

SEZEMOV, M. K. Chief Zootechnician

Voronezh Oblast Administration of Agriculture

"The causes of sterility of the mother-herd on the kolkhozes of Voronezh
oblast and the measures of the fight against it."

SO: Veterinariia 25 (1), 1948, p. 34

SEZEMOV, M. K.

37455. Otkorm sviney v kolkhozakh voronezhskoy oblasti. Sots. zhivotnovodstvo, 1949,
No. 8, s. 74-77.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949.

1. SEZEMCV, M. K.
 2. USSR (600)
 4. Dairy Cattle
 7. Effectiveness of the planned introduction of scientific achievements and progressive practice, Sov. zootekh., No. 12, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

SEZEMOV, M.K.

Experience of competition organizers. Nauka i pered. op. v sel'khoz.
7 no. 5:59-61 My '57. (MLRA 10:6)

1. Glavnnyy zootehnik Voronezhskogo oblsel'khozupravleniya.
(Dairying) (Stock and stockbreeding)

SEZEMOV, M.K.

Promising breeding plan for state and collective farms of Voronezh Province. Zhivotnovodstvo 20 no.11:47-54 N '58.

(MIRA 11:11)

1. Glavnnyy zootehnik Voronezhskogo oblastnogo upravleniya sel'skogo khozyaystva.
(Voronezh Province--Stock and stockbreeding)

SEZEMOV, M.K.

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F '60. (MIRA 15:11)

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SEZEMOV, Mikhail Ksenofontovich, zootehnik; ITUNINA, R.G., red.; SERAD-ZSKAYA, P.G., tekhn. red.

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KATALYMOV, M.V.; CHURBANOV, V.M.; RYABOVA, S.I.; KNYAZEVA, M.A.; SEZEMOVA,
Z.S.; PALILOVA, N.I.; GORLENKO, M.V.

Studying different ways and methods for applying trace element
fertilizers. [Trudy] NIUIF no.164:53-54 '59. (MIRA 15:5)
(Trace elements) (Fertilizers and manures)

BAYANDIN, P.A. (Murmansk); SHVETSOV, I.M.; TIMOFYEVA, N.V.; KOVAL', V.P.; KOZLOVA, E.Z.; TRET'YAKOV, N.I. (Kalininograd); MAMEDOV, E.Sh. (Poselok Martuni, AzerSSR); BOROVYY, Ye.M.; DULAYEV, S.G. (Grodno); GERASIMOV, B.A. (Lugansk); MEL'NIK, L.A. (Chernovtsy); MIGAL', L.A.; GUBANOV, A.G.; GOROVENKO, G.G. (Kiyev); SHAROV, B.K. (Chelyabinsk); SHUVALOVA, Z.A. (Sverdlovsk) NEIMARK, I.I.; ARYAYEV, L.N. (Odessa); KABANOV, A.N.; KONOVALOV, Yu.S.; ZAK, V.I. (Orenburg); MIKHAYLOV, M.M.; SEZ'KO, A.D. (Voronezh); SHALAYEV, M.I.; DONIN, V.I. (Saratov).

Abstracts. Grudn. khir. 5 no.3:110-126 My-Je'63 (MIRA 17:1)

1. Iz kafedry normal'noy anatomi Ryazanskogo meditsinskogo instituta imeni akademika I.P.Pavlova (for Shevtsov). 2. Iz Sochinskogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii Ministerstva zdravookhraneniya RSFSR (for Timofeyeva).
3. Iz khirurgicheskogo otdeleniya Ternopol'skoy klinicheskoy gorodskoy bol'nitsy (for Koval'). 4. Iz kafedry topograficheskoy anatomi i operativnoy khirurgii (zav. - prof. A.P. Sokolov). Permskogo meditsinskogo instituta (for Kozlova). 5. Iz khirurgicheskogo otdeleniya (zav. - Ye. M. Borovyy) Rovenskoy oblastnoy bol'nitsy (glavnnyy vrach - UkrSSR V.M. Vel'skiy) (for Borovyy).

(Continued on next card)

BAYANDIN, P.A.—— (continued) Card 2.

6. Iz fakul'tetskoy khirurgicheskoy kliniki (dir. - prof. I.M. Popov'yan) i gospital'noy terapevticheskoy kliniki (dir. - prof. L.S.Shvarts) lechebnogo fakul'teta Saratovskogo meditsinskogo instituta (for Migal'). 7. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. I.I.Neymark) Altayskogo meditsinskogo instituta (for Neymark). 8. Iz Novosibirskskogo gorodskogo protivotuberkuleznogo dispansera (for Kabanov). 9. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. I.A.Ivanov) Permskogo meditsinskogo instituta (for Shalayev).

BALANDIN, A.A.; MARUKYAN, G.M.; LAVROVSKAYA, T.K.; SEYMOVICH, R.G.;
GRYZLOVA, L.V.

Catalytic dehydrogenation of chloroethylbenzene. Izv. AN SSSR.
Otd.khim.nauk no.11:2031-2036 N '62. (MIRA 15:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Benzene) (Dehydrogenation)

SEZMESI, I.; BAJKOR, J.

Problems of the antibiotic treatment of inflamed breast in puerperium. Magy. noorv. lap. 15 no. 11:327-332 Nov 1952. (CML 23:5)

1. Doctors. 2. Second Women's Clinic (Director -- Prof. Dr. Imre Zoltan), Budapest Medical University.

DYUBYUK, A.F.; SEZNEVA, T.B.

Role of the pressure gradient in the development of a breeze.
Meteor. i gidrol. no.7:ll-18 Jl '62. (MIRA 15:6)
(Winds)

FILOTTI, A., ing.; SEZON, St.

Considerations on the economic classification of irrigable
lands. Hidrotehnica 8 no. 6: 212-218 Je '63.

KHOLMSKIY, V.G., doktor tekhn.nauk; SHCHERBINA, Yu.V.; SEZONOVА, V.D.

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Energ.i elektrotekh.prom. no.4:23-25 O-D '62. (MIRA 16:2)

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Shchertina). 2. Institut gornogo dela AN UkrSSR (for Sezonova).
(Electric networks) (Electronic computers)

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CIA-RDP86-00513R001548220016-2

Wright, Hu; Hill, Constantine, Eng., correspondent; Hall, Rimbue, correspondent;
Taffik, Aurez, Eng., correspondent

Other winter conditions. Contra Rue 163 10 D 164.

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Construction of schools in Bucharest, in an advanced stage. Constr
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SEART, M.

The collective helps. Constr Buc 16 no.775:4 14 N '64.

APPROVED FOR RELEASE: 08/23/2000

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ELIAS, H., Conf.; SFART, T., Conf.

Poliomyelitis: current pathogenetic concept. Rev. st. med. med. int., Bucur. 6 no.2:30-36 Apr-June 54.

1. Clinica de boli contagioase I.M.F., Bucuresti.
(POLIOMYELITIS, etiol. & pathogen.
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SCHWARTZ, J.,; ELIAS, H.,; SFART, T.,; FRIEDMAN, I.,; DUMITRESCU, S.,;
SAMUEL, I.,; SANDULESCU, T.

Strains of Coxsackie virus isolated from paralytic poliomyelitis
patients in Bucharest. Stud. cercet. inframicrobiol., Bucur. 6 no.
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Coxsackie virus strains isolated from polio. patients
in Bucharest)
(COXSACKIE VIRUSES
strains isolated from polio. patients in Bucharest)

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Coxsackie virus isolated from patients of paralytic poliomyelitis;
etiological relationships. Stud. cercet. inframicrobiol., Bucur.
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(COXSACKIE VIRUSES

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relationships)

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etiol. relationships)

SFART, Tiberiu, Dr.

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8 no.4:569-578 Aug 56.

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I. M. F. Bucuresti.
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clin. diag.)

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1130. HORMONAL TREATMENT IN OBSTRUCTIVE LARYNGITIS - Tratamentul hormonal al laringitelor obstruante nedifiterice - Sfart T., Brickman B. and Predescu I. Clin. de Boli Contag. I.M.F., Bucureşti - PEDIATRIA (Bucureşti) 1958, 7/3 (253-260) Tables 6

Hormone treatment was combined with the classical treatment in 12 cases, which were due to influenza according to the epidemiological, clinical and (sometimes) serological data. Cortisone was generally given for a short time; in 9 cases, it was not necessary to continue it for more than 2 days. The immediate results were: subsidence of the asphyctic syndrome within 24 hr. in 7 of 8 cases, and of the dyspnoic syndrome within less than 24 hr. in half the cases. The results were compared to those observed in another group of patients who received the same treatment, minus cortisone. In cases in which treatment was started during the first 3 days and in which no complications were present, recovery occurred about 6 times more rapidly in those treated with, than in those treated without cortisone. Recovery was attained more rapidly in cases admitted to hospital immediately after the onset of the disease, and in which treatment was started early. There were no bronchopulmonary complications whatsoever in children who received hormonal therapy, whereas in untreated ones such complications occurred in 31.8%. Compared with the untreated group, intubation and tracheotomy were 4 times less frequent in those who received hormonal treatment.

(L, 7, 11)

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What the technical office is proposing. Conatr Euc 17
no. 784:3 16 Ja '65.

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An elementary obligation. Constr Bus 17 no. 789; 2 20 : '65.

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Constructors and constructions in Bucharest. Constr Buc 17 no.790:4
27 F '65.

SFARTZ, M.

A daily impuse, the obligation. Constr Bus 17 no. 791:1, 2 6
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Multilateral support to the participants in socialist competition.
Constr Euc 17 nc.803:2 29 My '65.

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Comparative studies of serum aldolases (hepatic and muscular) in
epidemic hepatitis. Stud. cercet. inframicrobiol. 12:295-299 '61.
(HEPATITIS, INFECTIOUS blood)
(ALDOLASE blood)

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(HEPATITIS, INFECTIOUS blood) (ALDOLASE blood)
(MUSCLES chemistry) (LIVER chemistry)

MITROIU, O.; BARBU, C.; POPA, M.; SFERDEAN, O.

Etiological and serological studies of some affections accompanied by rashes in children. Studii cerc inframicrobiol Special issue-supplement to 12:271-274 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R.

(ADENOVIRUS INFECTIONS) (EXANTHEMATA)

MITROIU, O.; BARBU, C.; POPA, M.; COSTANDACHE, D.; SFERDEAN, O.;
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Adenoviral antibodies occurring in the course of various virus diseases.
Studii cerc inframicrobiol Special issue-supplement to 12:265-269
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(ANTIGENS AND ANTIBODIES)

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MITROIU, O.; BARBU, C.; POPA, M., en collaboration avec CONSTANDACHE, D.;
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Research on anti-adenovirus antibodies during various viral diseases.
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(ADENOVIRUS INFECTIONS immunology)
(VIRUS DISEASES immunology)

SFERDIAN, O.

MITROIU, O.; BARBU, C.; POPA, M.; in colaborare cu COSTANDACHE, D.;
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MITROIU, O.; BARBU, C.; POPA, M.; in colaborare cu SFERDEAN, O.

Etiological and serological investigations during several diseases
with eruptive syndrome in children. Stud. cercet. inframicrobial
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(EXANTHEMA in inf. & childh.)
(ADENOVIRUS INFECTION in inf. & childh.)

ATHANASIU, Pierette; CAJAL, N.; IALOMITEANU, M.; ANDREESCU, M.; SFERDIAN, I.

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(HEPATITIS, INFECTIOUS) (ALDOLASE)

MOLDOVAN, N.; WEINBACH, R.; STERESCO, P.; SFERDIAN, O.; GOLDIS, E.

The agglutination of tanned formaldehyde-treated human erythrocytes by human sera (TFE agglutination). III. Value of TFE test in the diagnosis of viral hepatitis (VH). Arch. Roum. path. exp. microbiol. 20 no.3:517-522 S '61.

1. Travail de l'Hopital No. 2 de Maladies contagieuses Bucarest et de l'Institut "Dr. I. Cantacuzino".
(HEPATITIS, INFECTIOUS diagnosis) (HEMAGGLUTINATION)

ILIESCO, M.; RADU, I.; BERCEANU, St.; HERGOT, Lucia; MONASESCO, Rebeca;
MOLDOVEANU, N.; SFERDIAN, O. Assistant technique: MARINESCO, M.

Serological research on the mechanism of autoimmunity in acute
and chronic hepatitis in man. Arch. roum. path. exp. microbiol.
23 no. 3:805-810 S'63

1. Institut "Dr. I. Cantacuzino", Bucarest (for Iliesco, Radu, Marinesco).
2. Clinique Medicala "Barnai Andrei", Bucarest (for Berceanu, Hergot, Ionasesco). 3. Hopital de Maladies Contagieuses No.2, Bucarest (for Moldoveanu, Sferidian).

L 45250-56 T JK

ACC NR: AI6033592

SOURCE CODE: RU/0023/65/010/004/0361/0364

29

B

AUTHOR: Athanasiu, Pierrette--Atanasiu, P. (Doctor); Ialomiteanu, M.--
Yalomitsyanu, M. (Doctor); Petrescu, Al.--Petresku, A. (Doctor); Sferdian, O. (Doctor)ORG: Institute of Inframicrobiology, RSR Academy (Institutul de inframicrobiologie
al Academiei R.S.R.)TITLE: Study of urinary mucoproteins -- the Donaggio test -- in the course of acute
viral hepatitis ✓

SOURCE: Microbiologia, parazitologia si epidemiologia, v. 10, no. 4, 1965, 361-364

TOPIC TAGS: protein, virus disease, hepatitis, urology

ABSTRACT: The authors show that the percentage of positive tests as well as the intensity of the concentration of mucoproteins in the urine of patients suffering from acute viral hepatitis, chronic hepatitis, obstructive jaundice and biliary dyskinesia is higher when the disease is more serious. It is suggested that this may also be due to pathologic changes in the kidneys during these diseases.

[Based on authors' Eng. abst.] [JPRS: 32,913]

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Card 1/1 14

UDC: 616.36-002.12:616.633.963-072.85

0930

1635

TITKOV, N.I.; LYUBIMOV, G.A.; SVERINA, I.D.

Testing turbine drive for deep-well drilling;. Trudy Inst.nefti
11:111-120 '58. (MIRA 11:12)
(Turbodrills)

TITKOV, N.I.; MAKSIMOVA, N.I.; KORZHUYEV, A.S.; SVERINA, I.D.

Method for determining the strength and character of the
adhesion of polymers to rocks. Burenie no.5:16-17 '64. (MIRA 16:5)

1. Institut geologii i razrabotki goryuchikh iskopayemykh, Moskva.

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CIA-RDP86-00513R001548220016-2

SFETCU, I., elev (Lugoj)

Propounded problems; 5190. Gaz mat B 13 no.3:172 Mr '62.

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SFICLEA, V., conf. univ. (Iasi)

Physical and administrative wall maps of Rumania. Natura Geografie
15 no.4:39-42 Jl-Ag '63.

SANDRU, I.; CUCU, V.; SFICLEA, V.

Geographical contributions to the Galati-Braila urban grouping.
Anal St Jassy II 9:151-160 '63.

SANDRU, I., prof. univ.; SFICLEA, V., conf. univ. (Iasi); CUCU, V.
(Bucuresti); POGHIREC, A.; CHIRIAC, D.

Map of the population distribution of Rumania. Natura
Geografie 16 no. 3-8 My-Je '64.

SFINTESCU, Cl.

Determination and correlation of the activity of catalysts with
specific surface and porosity. Rev chimie Min petr 13 no.4:224-
231 Ap '62.

SFINTEANU, Dragos, ing.

Observations on the wear of bearings in operating diesel engines. Constr mas 15 no.7:512-514 J1'63.

1. Uzinele "23 August", Bucuresti.

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Considerations on piston seizing in diesel engines. Constr mas
15 no.4:323-324 Ap '63.

1. Uzina "23 August", Bucuresti.